Wizcon® Supervisor™

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Wizcon 9.1.6

Wago® Ethernet Importer User Guide

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1 Introduction

The Wizcon WAGO Ethernet Importer Add-On enables you to import variables defined in a WAGO Ethernet Controller directly into Wizcon. The add-on calculates the Modbus addresses - a cumbersome procedure that previously had to be done manually by the programmer.

Just one click with your mouse is needed to import variables from WAGO I/Os as tags in Wizcon. If necessary, the integrated rule editor can be used to modify the variable names to suit the visualization requirements.

This document is based on WAGO Ethernet Importer Version 1.0.

2 System Requirements

Operating system:	Windows NT, 2000, XP Professional
Wizcon:	Wizcon 8.3 or higher
Controller:	WAGO Ethernet Controller, series *750-842 / 841*

3 Installation

The WAGO Ethernet Importer program package consist of one single executable file, called *WAGO-Ethernet-Importer.exe*.

Copy this file to a directory of your choice on your hard disc drive. You can run the program by double-clicking the *WAGO-Ethernet-Importer.exe* file.

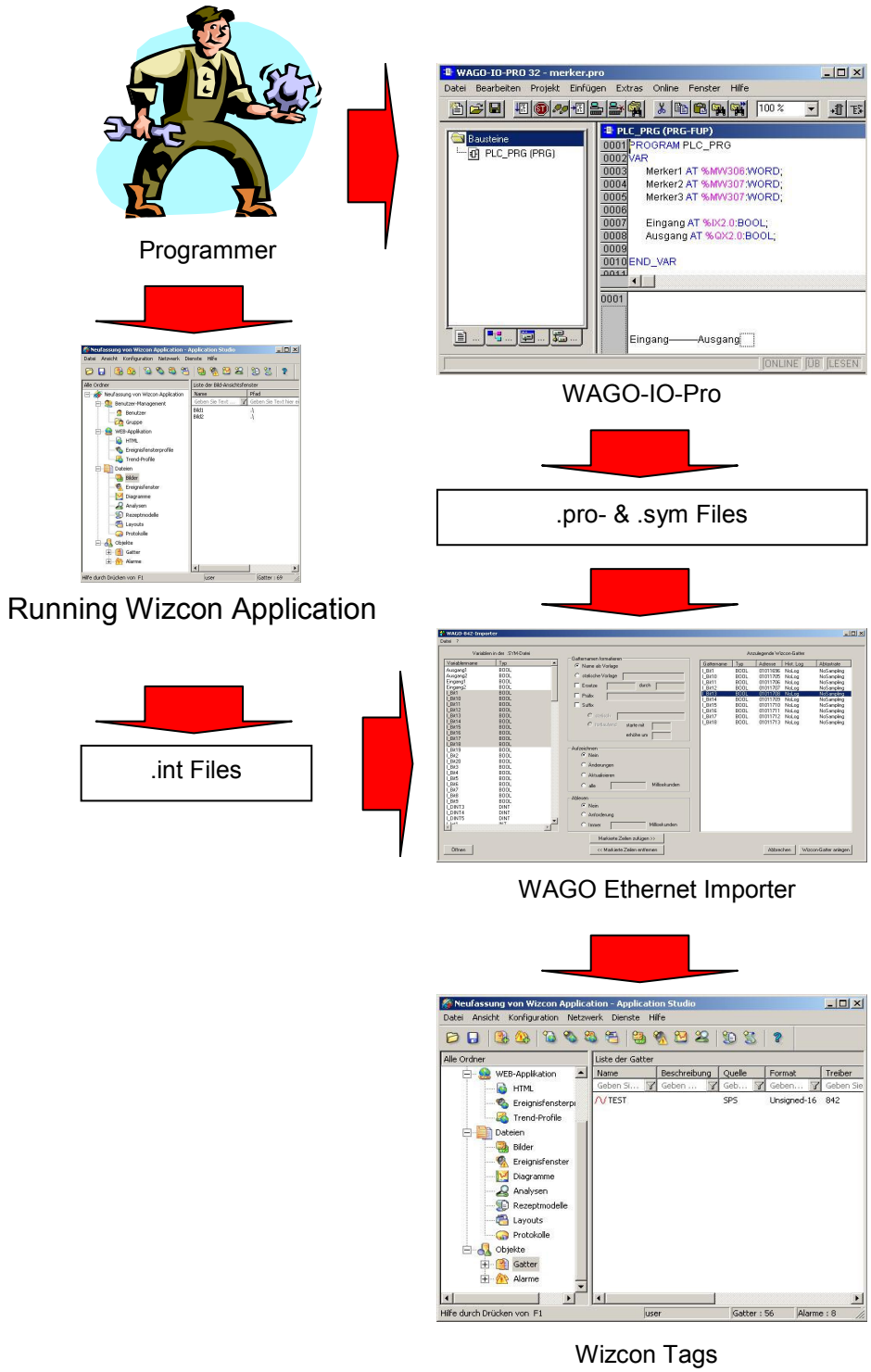

Figure 1: Workflow to create Wizcon tags for WAGO Ethernet Controller using the WAGO Ethernet Importer tool.

4 Using WAGO Ethernet Importer

The WAGO Ethernet Importer is used in three steps: First, you must load the WAGO Controller variable definitions. Then, you can compute tag addresses for these variables, modify their names, and add additional information. Finally, the modified tag definitions are exported to Wizcon.

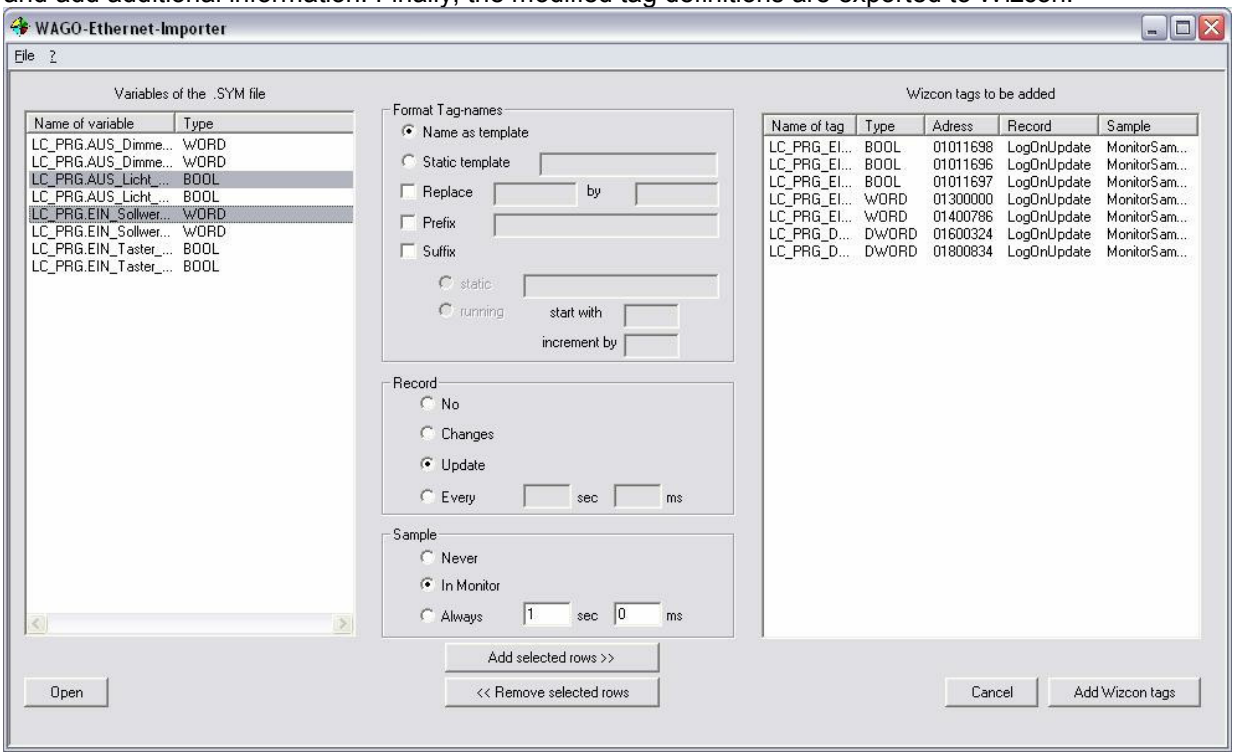

Figure 2: WAGO Ethernet Importer user interface.

4.1 Loading Variable Definitions

Three files, which contain all necessary information, are required to properly read the variable definitions. The files are:

- ***.PRO file:** This file is created when programming the WAGO Controller using the WAGO *WAGO-IO-Pro* program. WAGO Ethernet Importer reads the IP address of the WAGO Controller from this file.

- ***.SYM file:** This file contains the names of the variables, their addresses, and the relevant data type of each variable. It is created by the *WAGO-IO-Pro* program when programming the Controller. The file is located in the same folder as the .PRO file. To instruct WAGO-IO-Pro to create this file automatically: In the WAGO-IO-Pro program, mark the checkbox in Project->Option->Icon Configuration, and click *Configure Icon File*. A window will open, where you check the desired variables for *Output variables of object*.

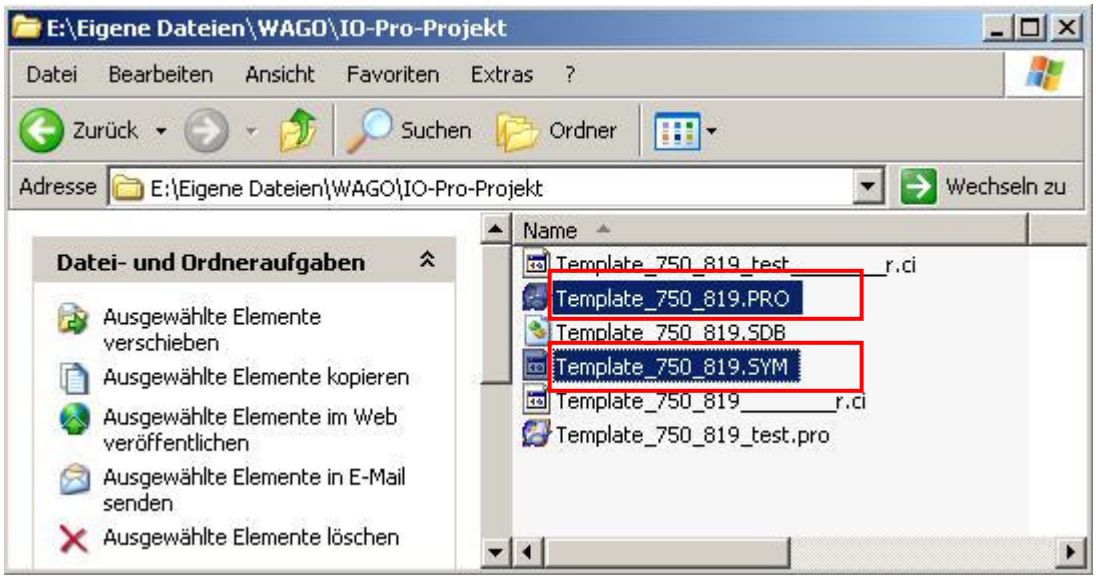

Figure 3: Example for the storage location of the .PRO and .SYM files in the WAGO-IO-Pro program folder.

- ***.int file:** This file is required by Wizcon. It is used, i.a., to assign Wizcon-internal identifiers to the IP addresses of the controllers. It also contains information on the address mode. You need to create this file manually in the Wizcon project directory according to the instructions given in the Wizcon Drivers Help (VPIMRP.HLP).

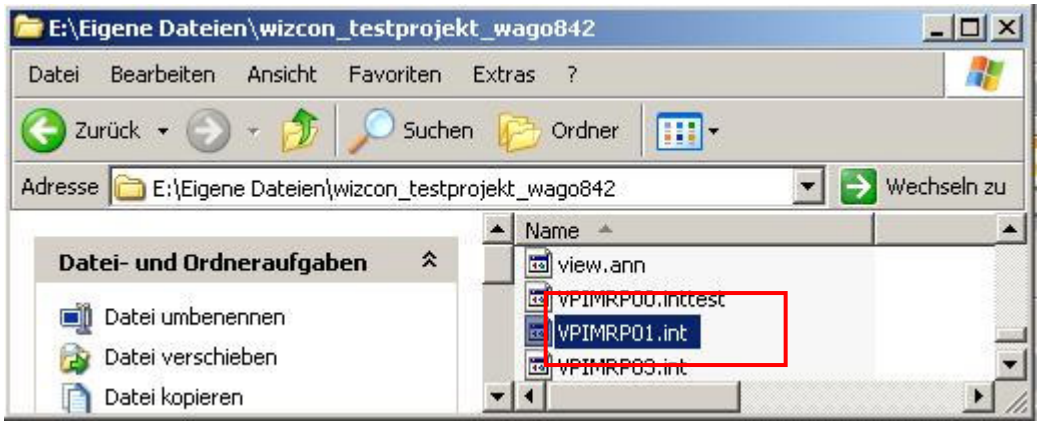

Figure 4: Example for the storage location of the .int file in the Wizcon project directory.

According to the naming conventions, the file is to be named as follows: VPIMRP*xx*.int – where *xx* is the number of the Wizcon driver to be used. This number corresponds to the position where the driver is located in the Wizcon *Application Studio* in *Design=>Communication drivers*.

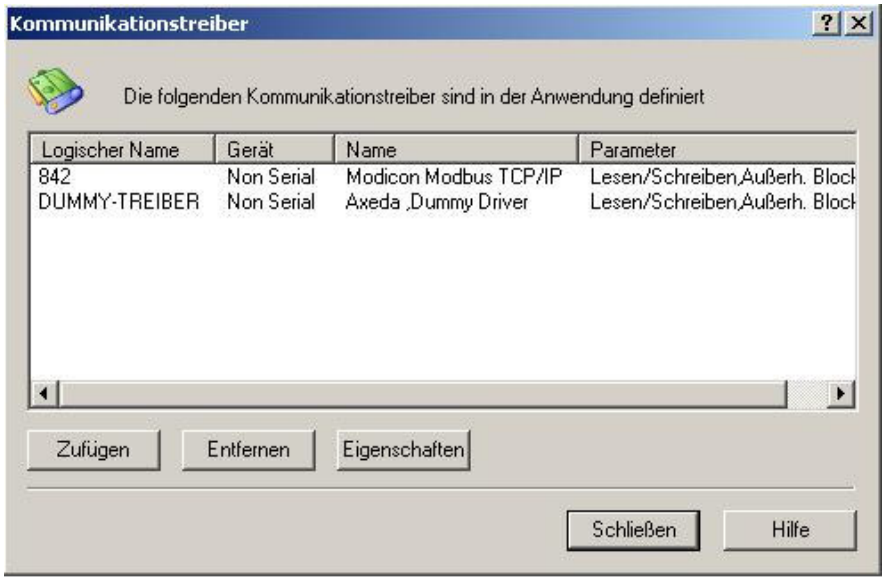

Figure 5: Example for the Wizcon Communication Drivers dialog.

Example: If the IP address of the WAGO Ethernet Controller is `192.168.1.41` and the driver is located at the first position as shown in figure 5 (here "*842*"), the name of the .int file must be *VPIMRP01.int*. Its contents would be, e.g., like in figure 6.

```
01 "192.168.1.41"
BUS=J,L
SWAP=YES
FLOATSWAP=YES
LONGADDR=YES
```

Figure 6: Example for an .int file

When opening a new file, the WAGO Ethernet Importer program prompts for the storage location of the above mentioned **.PRO* file. The other required files are found automatically.
To open a new **.PRO* file, simply click the *Open* button, or select *Menu=>Open*.
The variables found in the project files are displayed in the list to the left, *Variables of the .SYM file*, according to their order in the *SYM* file. To sort the variables alphabetically by name or by type, click the column header of the relevant column.

4.2 Modifying Tag Parameters

Loaded tag definitions can be modified before they are exported to Wizcon. You can change the tag names and specify values for historical logging and the sampling rate to be used in Wizcon.
To add a variable to the list of tags to be exported to Wizcon, simply double-click it in the list to the left. In order to add several variables at once, select them in the list to the left (while pressing the

CTRL key to select individual tags, or the SHIFT key to select all variables between the entries you selected). Then click *Add selected rows>>.*
To remove tags from the list of tags to be exported to Wizcon, double-click the tag to be removed. You may also select multiple tags and then click << *Remove selected rows*.

4.2.1 Format Tag Names

Many convenient options are available for converting tag names.

- **Name as template:** The Wizcon tag gets the same name as the corresponding variable in WAGO-IO-Pro.

- **Static template:** The Wizcon tag gets the new name that you specify here.

In addition to these two basic naming conventions, you can use the following options to convert the names, which is useful to facilitate the process of adding many tags that are subject to a uniform naming scheme:

- **Replace:** If you check this option, the string specified in the left text box is replaced by the string entered in the right text box.

- **Prefix:** If you check this option, each tag name is preceded with the prefix specified in the text box.

- **Suffix:** If you check this option, each tag name is suffixed.

    - **Static suffix:** The suffix specified in the text box will be added.

    - **Running suffix:** In the first text box, you can enter a number to be appended to the name of the first selected variable. If multiple variable are selected in the *Variables of the SYM file* list, the suffix for each subsequent tag name is increased by the value entered in the second text field.

4.2.2 Configuring Recording

The following options are available for recording tag values:

- **Never:** No logging.

- **Changes**: Value changes are recorded in the log.

- **Update**: Information is recorded only when reading new tag values.

- **Every *X* ms:** Tag values will be recorded periodically with the specified interval *x*.

4.2.3 Configure Sampling Frequency

The following options are available for sampling:

- **Never:** Wizcon will never query tag values.

- **In Monitor:** Wizcon will query tag values only when they are requested.

- **Always:** Tag values will be queried periodically with the specified interval *X*.

4.3 Exporting Tag Definitions

To export the tags displayed in the *Wizcon Tags to be added* list to the right to Wizcon, click *Add Wizcon Tags*.

5 Appendix

5.1 Wizcon Tag Naming Conventions

Please note, that only the characters A-Z, a-z, 0-9 and _ are permitted in Wizcon tag names. Different characters in variable names will be replaced automatically. For example: Array declarations, which are defined with square parentheses in WAGO-IO-Pro, will be replaced as follows:

WAGO-IO-Pro	WAGO Ethernet Importer
Arrayname[1]	Arrayname_1